

Windbreak Interpretations

Farmstead windbreaks protect livestock, buildings, and yards from wind and snow. They also protect fruit trees and gardens, and they furnish habitat for wildlife. Several rows of low-growing and high-growing broadleaf and coniferous trees and shrubs provide the most protection.

Field windbreaks are narrow plantings made at right angles to the prevailing wind and at specific intervals across the field. The interval depends on the erodibility of the soil. Field windbreaks protect cropland and crops from wind, help to keep snow on the fields, increase crop yields, and provide food and cover for wildlife.

Each tree or shrub species has certain climatic and physiographic limits. Within these parameters a tree or shrub may be well or poorly suited because of soil characteristics. Each tree or shrub also has definable potentials of height growth based on the soil type and climate.

Information in this subsection, which includes windbreak suitability groups and a windbreak and environmental plantings table, can be used as a guide in planning windbreaks and screens.

This subsection includes:

- **(a) Trees and Shrubs for Windbreak and Environmental Plantings**

Table 9.--Windbreaks and Environmental Plantings

(Only the soils suitable for windbreaks and environmental plantings are listed. Absence of an entry indicates that trees generally do not grow to the given height.)

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
40000: Barden-----	fragrant sumac, ninebark	gray dogwood, possumhaw, Amur maple	eastern redcedar	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak	---
40003: Woodson-----	fragrant sumac, ninebark	gray dogwood, possumhaw, Amur maple	eastern redcedar	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak	---
40004: Barden-----	fragrant sumac, ninebark	gray dogwood, possumhaw, Amur maple	eastern redcedar	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak	---
40005: Sylvania-----	common ninebark, fragrant sumac	Amur maple, gray dogwood, possumhaw	eastern redcedar	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak	---
40006: Barco-----	American plum, common lilac, fragrant sumac	Washington hawthorn, gray dogwood	Austrian pine, black oak, common hackberry, eastern redcedar, white ash	shortleaf pine	---
Sylvania-----	---	Ohio buckeye, bitternut hickory, cockspur hawthorn, common chokecherry eastern redcedar	Austrian pine, honeylocust, red maple, common hackberry, green ash	eastern cottonwood	Carolina poplar
40007: Eldorado-----	Amur honeysuckle, common lilac, fragrant sumac	autumn olive	Russian olive, bur oak, common hackberry, eastern redcedar, Austrian pine, green ash, honeylocust	Siberian elm	---
44000: Cherokee-----	fragrant sumac, ninebark	gray dogwood, possumhaw, Amur maple	eastern redcedar	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak	---
46001: Verdigris-----	---	American plum, eastern redbud	eastern redcedar, red mulberry	Russian olive, bur oak, osageorange, green ash, black locust	honeylocust, eastern cottonwood

Table 9.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
46002: Hepler-----	American plum, fragrant sumac	blackhaw, gray dogwood	Washington hawthorn, nannyberry, eastern redcedar	baldcypress, green ash, sweetgum	eastern white pine, pin oak
70006: Crelton-----	American cranberrybush, American plum, black chokeberry, common chokecherry, common elderberry, common juniper, coralberry, mapleleaf viburnum, roughleaf dogwood, silky dogwood	American hazelnut, Washington hawthorn, arborvitae, common serviceberry, nannyberry, prairie crabapple, smooth sumac, bur oak, chinkapin oak, eastern redcedar	Virginia pine, eastern white pine, red pine, black oak, common hackberry, green ash, shortleaf pine	Carolina poplar, eastern cottonwood	---
70008, 70009, 70010: Goss-----	fragrant sumac	American plum, gray dogwood, southern arrowwood	Washington hawthorn, eastern redbud, eastern redcedar	white fir, green ash, northern red oak, tuliptree	eastern white pine
70012: Hoberg-----	American cranberrybush, American plum, black chokeberry, common chokecherry, common elderberry, common juniper, coralberry, mapleleaf viburnum, roughleaf dogwood, silky dogwood	American hazelnut, Washington hawthorn, arborvitae, common serviceberry, nannyberry, prairie crabapple, smooth sumac, bur oak, chinkapin oak, eastern redcedar	Virginia pine, eastern white pine, red pine, black oak, common hackberry, green ash, shortleaf pine	Carolina poplar, eastern cottonwood	---
70041: Goss-----	Amur honeysuckle, common lilac, fragrant sumac	autumn olive	Russian olive, bur oak, common hackberry, eastern redcedar, Austrian pine, green ash, honeylocust	Siberian elm	---
70042: Goss-----	fragrant sumac	American plum, gray dogwood, southern arrowwood	Washington hawthorn, eastern redbud, eastern redcedar	white fir, green ash, northern red oak, tuliptree	eastern white pine
70045: Keeno-----	American cranberrybush, American plum, black chokeberry, common chokecherry, common elderberry, common juniper, coralberry, mapleleaf viburnum, roughleaf dogwood, silky dogwood	American hazelnut, Washington hawthorn, arborvitae, common serviceberry, nannyberry, prairie crabapple, smooth sumac, bur oak, chinkapin oak, eastern redcedar	Virginia pine, eastern white pine, red pine, black oak, common hackberry, green ash, shortleaf pine	Carolina poplar, eastern cottonwood	---

Table 9.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
70047: Wanda-----	fragrant sumac	American plum, gray dogwood, southern arrowwood	Washington hawthorn, eastern redbud, eastern redcedar	white fir, green ash, northern red oak, tuliptree	eastern white pine
73008: Viraton-----	American plum, common lilac, fragrant sumac	Washington hawthorn, gray dogwood, Amur maple	Austrian pine, Virginia pine, common hackberry, eastern redcedar, unknown, honeylocust	---	---
73010: Wilderness-----	American plum, common lilac, fragrant sumac	Washington hawthorn, gray dogwood, Amur maple	Austrian pine, Virginia pine, common hackberry, eastern redcedar, unknown, honeylocust	---	---
73031: Gerald-----	American cranberrybush, American plum, black chokeberry, common chokecherry, common elderberry, common juniper, coralberry, mapleleaf viburnum, roughleaf dogwood, silky dogwood	American hazelnut, Washington hawthorn, arborvitae, common serviceberry, nannyberry, prairie crabapple, smooth sumac, bur oak, chinkapin oak, eastern redcedar	Virginia pine, eastern white pine, red pine, black oak, common hackberry, green ash, shortleaf pine	Carolina poplar, eastern cottonwood	---
73075: Hobson-----	Amur honeysuckle, common lilac	Amur maple, autumn olive	Manchurian crabapple, Russian olive, eastern redcedar, common hackberry, green ash, Austrian pine, jack pine	honeylocust	---
74641: Secesh-----	---	Amur honeysuckle, common lilac, Amur maple, autumn olive	eastern redcedar	Austrian pine, common hackberry, green ash, honeylocust, pin oak, eastern white pine	eastern cottonwood